

## CLAIMS:

1. A transponder (1) that is arranged for non-contacting communication with a communication station, and that has transmission means (2) and that has an integrated circuit (5) having circuit connecting contacts (6, 7), wherein the transmission means (2) are connected to circuit connecting contacts (6, 7), wherein an input voltage (UIN) can be picked off from these circuit connecting contacts (6, 7), wherein the integrated circuit (5) contains a monitoring circuit (23) to which a voltage (VS) generated by using the input voltage (UIN) can be fed and by which a signalizing signal (POK) whose waveform is dependent on the relationship between the fed voltage (VS) and a voltage threshold value (VTHR1, VTHR2; VTHR1, VTHR3) can be generated, wherein the integrated circuit (5) contains at least one data-processing circuit (9) to which the signalizing signal (POK) can be fed for the purpose of signalizing at least two values of the fed voltage (VS) to the data-processing circuit (9), wherein the monitoring circuit (23) is arranged to be controllable in respect of the generation of the signalizing signal (POK), and wherein control means (28) are provided for controlling the monitoring circuit (23) in respect of the generation of the signalizing signal (POK), which control means (28) are arranged to generate at least one control signal (CS1, CS2; CS3).  
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2. A transponder (1) as claimed in claim 1, wherein the monitoring circuit (23) is arranged to be controllable in respect of the voltage threshold value (VTHR1, VTHR2; VTHR1, VTHR3).  
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3. A transponder (1) as claimed in claim 1, wherein the control means (28) are arranged to exert control as a function of at least two modes of operation able to be performed by the transponder (1).
- 25 4. A transponder (1) as claimed in claim 3, wherein the control means (28) are arranged to exert control as a function of a read mode and a write mode.
5. A transponder (1) as claimed in claim 3, wherein the control means (28) are arranged to generate a control signal (CS1, CS2) as a function of a command signal

(RDCOM, WRCOM) that is emitted by a communication station and received in the integrated circuit (5).

6. A transponder (1) as claimed in claim 3, wherein the control means (28) are  
5 arranged to generate a control signal (CS3) as a function of an item of control information  
(CI) stored in the integrated circuit (5).

7. A transponder (1) as claimed in claim 6, wherein the item of control  
information (CI) is stored in a configuration register (16) in the integrated circuit (5).

10 8. An integrated circuit (5) that is intended for use in a transponder (1) for non-  
contacting communication with a communication station, and that has circuit connecting  
contacts (6, 7) which are intended for connection to transmission means (2) of the  
transponder (1) and from which an input voltage (UIN) can be picked off, which integrated  
15 circuit contains a monitoring circuit (23) to which a voltage (VS) generated by using the  
input voltage (UIN) can be fed, by which integrated circuit a signalizing signal (POK) whose  
waveform is dependent on the relationship between the fed voltage (VS) and a voltage  
threshold value (VTHR1, VTHR2; VTHR1, VTHR3) can be generated, and which integrated  
circuit contains at least one data-processing circuit (9) to which the signalizing signal (POK)  
20 can be fed for the purpose of signalizing at least two values of the fed voltage (VS) to the  
data-processing circuit (9), wherein the monitoring circuit (23) is arranged to be controllable  
in respect of the generation of the signalizing signal (POK), and wherein control means (28)  
are provided for controlling the monitoring circuit (23) in respect of the generation of the  
signalizing signal (POK), which control means (28) are arranged to generate at least one  
25 control signal (CS1, CS2; CS3).

9. An integrated circuit (5) as claimed in claim 8, wherein the monitoring circuit  
(23) is arranged to be controllable in respect of the voltage threshold value (VTHR1,  
VTHR2; VTHR1, VTHR3).

30 10. An integrated circuit (5) as claimed in claim 8, wherein the control means (28)  
are arranged to exert control as a function of at least two modes of operation able to be  
performed by the transponder (1).

11. An integrated circuit (5) as claimed in claim 10, wherein the control means (28) are arranged to exert control as a function of a read mode and a write mode.

12. An integrated circuit (5) as claimed in claim 10, wherein the control means (28) are arranged to generate a control signal (CS1, CS2) as a function of a command signal (RDCOM, WRCOM) that is emitted by a communication station and received in the integrated circuit (5).

13. An integrated circuit (5) as claimed in claim 10, wherein the control means (28) are arranged to generate a control signal (CS3) as a function of an item of control information (CI) stored in the integrated circuit (5).

14. An integrated circuit (5) as claimed in claim 13, wherein the item of control information (CI) is stored in a configuration register (16) in the integrated circuit (5).